



Product Brief
PRM-100 Processor Card

Rev 0.9

Summary:

The JumpGen Systems PRM-100 Processor Card is a high-performance processor AdvancedMC™ (PrAMC) card designed for use in ATCA or MicroTCA systems. The PRM-100 is compliant with PICMG AMC.0 Revision 2.0 Mid-Size or Full-Size form factor standards. Featuring the latest 45nm Intel® Core™ 2 Duo processor with 1.8GHz clock rate and Intel 3100, the PRM-100 can be delivered with up to 8GB of 72-bit wide DDR2 ECC memory running at 400 MHz and 1-8 GB of onboard bootable SSD.

Features:

Central Processing Units (CPUs)	Intel® Core™ 2 Duo or Celeron® M processors <ul style="list-style-type: none"> • Up to 1.8 GHz w/ up to 6MB L2 cache and 800 MHz FSB • Up to 8GB of DDR2 memory w/ ECC running up to 400MHz • Bus width of x72
I/O Capabilities	AMC.3 Dual SATA channels (Lanes 2, 3) Dual 10GBase-BX4 Fat Pipe Connections, configurable as: <ul style="list-style-type: none"> • AMC.2 Type 6, Dual 10GigE (Lanes 4-7, 8-11) or • SCOPE AMC Hardware Profile, Dual 10GigE (Lanes 8-11, 17-20) AMC.2 Dual 1000Base-BX Ports configured as Type E2 (Lanes 0, 1) Dual 10/100/1000Base-T Ports on Front Panel Serial Protocols <ul style="list-style-type: none"> • USB and RS-232 on Front Panel
Mass Storage	1-8 GB Solid State Drive (SSD)
BIOS support	PXE boot (GigE or 10GigE ports) SATA boot SSD boot USB boot (off-board devices) Serial Console redirection
Mechanical	Standard AMC Full-Size or Mid-Size form factor
Environmental	Operating temperature range: 0 to 55 °C Humidity: 0 to 95% (non-condensing) Typical power consumption: 25-45W Worst-case power consumption: 32-50W

PRM-100 Intel® Processor Options:

Processor Number	# of Cores	Core (GHz)	L2 Cache (MB)	FSB (MHz)	TDP (Watt)	Process
Core™ 2 Duo SL9380	2	1.8	6	800	17	45nm
Core™ 2 Duo SU9300	2	1.2	3	800	10.5	45nm
Celeron M 722	1	1.2	1	800	5.5	45nm

Block Diagram:

